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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/717,204	11/20/2003	Yoichi Yamada	Q78424	6216	
23373 7	7590 01/31/2006		EXAM	EXAMINER	
SUGHRUE MION, PLLC			GLEITZ, RYAN M		
SUITE 800	'LVANIA AVENUE, N	.w.	ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20037		2852		
			DATE MAILED: 01/31/2006	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

				AK			
		Application No.	Applicant(s)	, ,,			
Office Action Summary		10/717,204	YAMADA ET AL.				
		Examiner	Art Unit				
		Ryan Gleitz	2852				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet v	vith the correspondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING DESIGNATION OF THE MAILING DESIGN	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO te, cause the application to become	ICATION. a reply be timely filed DNTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 171	November 2005.					
2a)⊠	↑ This action is FINAL. 2b) This action is non-final.						
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	Claim(s) 1-56 is/are pending in the application	n.					
,	4a) Of the above claim(s) <u>25-54</u> is/are withdrawn from consideration.						
5)🖂	5) Claim(s) 6-20 is/are allowed.						
6)⊠	☑ Claim(s) <u>1-5, 22-24, 55/1, and 56</u> is/are rejected.						
•	Claim(s) <u>55/6, 55/7, 55/13, 55/15, and 55/20</u> is/are objected to.						
8)[Claim(s) are subject to restriction and/	or election requirement.					
Applicat	ion Papers						
9)	The specification is objected to by the Examin	er.					
10)	The drawing(s) filed on is/are: a) _ ac	cepted or b) Dobjected to	by the Examiner.				
	Applicant may not request that any objection to the	- · ·					
	Replacement drawing sheet(s) including the corre			i).			
11)	The oath or declaration is objected to by the E	Examiner. Note the attach	ed Office Action or form PTO-152.				
Priority (under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreig ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
•	1. Certified copies of the priority documer	nts have been received.					
	2. Certified copies of the priority documer	nts have been received in	Application No				
	3. Copies of the certified copies of the pri	ority documents have bee	n received in this National Stage				
	application from the International Burea						
* (See the attached detailed Office action for a lis	at of the certified copies no	ot received.				
Attachmer	nt(s)						
_	ce of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)				
2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	o(s)/Mail Date f Informal Patent Application (PTO-152)				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	6) Other: _					

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 4, 5, 22-24, 55/1, and 56 are rejected under 35 U.S.C. 102(e) as being anticipated by Ono (US 6,701,110).

Ono discloses an image forming apparatus including an image bearing member (202) on which a latent image is formed; a plurality of developing devices (221-224) for developing the latent image, each of the developing devices containing developer; and a turnable turning member (203) on which the plurality of developing devices (221-224) are mounted.

A standby position can be set according to the frequency of use of monochrome and color (col. 3, lines 18-22), which reads on the turning member (203) is caused to turn based on a turn history of the turning member (203). Compare the alternate home positions for the turning member (203) in figures 9A and 9F. The turn history determines which of these home positions is used. The home position in figure 9A would require a different number of rotations for developing a set of images than the home position in figure 9F when developing the same set of images. Therefore, the number of times the turning member is caused to turn is based on a turn history of the turning member.

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Regarding claim 4, each of the developing devices (221-224) does not have a stirring member.

Regarding claim 5, the frequency of use of monochrome or color copies must be recorded by either the number of that type of medium that has been output or a number of times of turns of the turning member.

Regarding claim 22, figure 3 shows a computer-readable storage medium having recorded thereon a program for controlling the image forming apparatus.

Regarding claim 23, a computer system may be connected to the image forming apparatus. See External I/F, figure 3.

Regarding claim 24, the image forming apparatus also reads on a method for forming an image with an image forming apparatus.

Regarding claims 55/1 and 56, the turns the turning member is caused to turn occur both at the beginning and the end of an output job. See figure 10.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

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the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ono (US 6,701,110) in view of Shimura (US 6,889,915).

One disclose the image forming apparatus above but are silent as to the details of developing devices (221-224).

However, Shimura discloses a similar image forming apparatus including developing devices (4K,Y,M,C) as shown in figure 3, each of which have two containers, and when the turning member (4) is caused to turn the developer in the containers is mixed. As shown in figure 1, the developer supplying section of each developing device (4K,Y,M,C) is at a lower portion when the developing device is position in the developing position.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image forming apparatus of Ono with the developing device of Shimura. The suggestion for doing so would have been that the construction of the developing device allows all of the developer to reach the developing roller without the use of a stirring member, reducing the cost of the apparatus.

Allowable Subject Matter

Claim 6-20 are allowed.

Claims 55/6, 55/7, 55/13, 55/15, and 55/20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed 17 November 2005 (Response) have been fully considered but they are not persuasive.

Applicant correctly submits that in Ono, "the standby position or initial starting position is set depending on whether monochrome or color printing is performed more often," but somehow concludes, "the 'preliminary movement' is not caused by the frequency of use of monochrome or color printing." See Response, p. 24. This argument is not persuasive because the frequency of use is equivalent to which more is performed more often.

Applicant further submit that Ono at best teaches that the frequency of use indicates a starting position for the turning member but does not cause it to turn. See Response, p. 24. This is not persuasive because the turning member must be caused to turn before it can reach the starting position.

Regarding the 35 USC 103 rejections of claims 2 and 3, Applicant submits that since Ono does not have a stirring member, one skilled in the art would not be motivated to modify Ono by Shimura based on the motivation of reducing the cost of the apparatus by using a construction that allows the developer to reach the developing roller without the use of a stirring member, as provided by the previous office action. See Response, p. 25. Ono is silent on whether the disclosed apparatus includes a stirring member. Internal details of the developing device are not discussed. If Ono does have a stirring member, then it must have either the structure required by claims 2 and 3, in which case a rejection under 35 USC 102 is proper, or it must have an equivalent means of mixing and delivering toner without a stirring member, in which case, modification by Shimura under 35 USC 103 would be proper.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Gleitz whose telephone number is (571) 272-2134. The examiner can normally be reached on Monday-Friday between 9:00AM and 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on (571) 272-2136. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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> Arthur T. Grimley Supervisory Patent Examiner Technology Center 2800

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